

# Cytometer Performance Report

**Cytometer:** FACSCantoII  
**Cytometer Name:** FACSCantoII  
**Serial Number:** V33896201821  
**Input Device:** Carousel  
**Tube Loaded Manually:** Yes  
**Cytometer Configuration:** Euroflow 3-laser, 8-color (4-2-2)

**User:** Administrator  
**Institution:** N/A  
**Software:** BD FACSDiva 8.0.2  
**Date:** 06/15/2020 10:59 AM  
**Cytometer Baseline:** 02/04/2020 09:45 AM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910859  
**Lot ID:** 80996 **Expiration Date:** 04/30/2020 (Expired)  
**Bead Lot Information:** Available

## Detector Settings

| Laser  | Detector | Parameter   | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|--------|----------|-------------|--------------|---------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC         | 125000       | 124826              | -1                        | 2.48                    | 124921                  | 2.45                 |
| Blue   | F        | SSC         | 125000       | 124704              | -1                        | 2.52                    | 125487                  | 2.51                 |
| Blue   | E        | FITC        | 15892        | 15324               | -4                        | 3.00                    | 335                     | 20.82                |
| Blue   | D        | PE          | 29999        | 29203               | -3                        | 2.29                    | 638                     | 15.26                |
| Blue   | B        | PerCP-Cy5-5 | 43732        | 43272               | -2                        | 4.09                    | 1162                    | 21.13                |
| Blue   | A        | PE-Cy7      | 30845        | 30675               | -1                        | 6.36                    | 581                     | 42.62                |
| Red    | C        | APC         | 46112        | 45190               | -2                        | 2.48                    | 1598                    | 11.89                |
| Red    | A        | APC-Cy7     | 30458        | 29993               | -2                        | 2.41                    | 791                     | 11.78                |
| Violet | B        | V450        | 7918         | 7559                | -5                        | 3.99                    | 425                     | 13.31                |
| Violet | A        | V500        | 32171        | 30703               | -5                        | 3.78                    | 716                     | 10.47                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter   | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-------------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC         | 17476                   | 10.39                | 633  | 12     | N/A    | N/A  | Pass |
| Blue   | F        | SSC         | 56951                   | 1.80                 | 574  | 15     | N/A    | N/A  | Pass |
| Blue   | E        | FITC        | 61                      | 65.51                | 549  | 6      | 0.0183 | 121  | Pass |
| Blue   | D        | PE          | 132                     | 51.01                | 555  | 7      | 0.1473 | 250  | Pass |
| Blue   | B        | PerCP-Cy5-5 | 214                     | 51.40                | 663  | 7      | 0.0084 | 50   | Pass |
| Blue   | A        | PE-Cy7      | 105                     | 108.19               | 706  | 8      | 0.0101 | 19   | Pass |
| Red    | C        | APC         | 383                     | 25.25                | 586  | 2      | 0.0262 | 220  | Pass |
| Red    | A        | APC-Cy7     | 175                     | 29.05                | 559  | 3      | 0.0060 | 1402 | Pass |
| Violet | B        | V450        | 66                      | 57.91                | 458  | 0      | 0.0440 | 1611 | Pass |
| Violet | A        | V500        | 108                     | 32.48                | 474  | 0      | 0.0218 | 539  | Pass |

## Specifications

**PMTV Delta from baseline:** 50 (BD)  
**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

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## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|-------------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.55      | 47.98 - 71.98    | N/A          | N/A                     | -33.05                 | -32.19                          | 1.03                |
| Blue   | 20.35      | 16.27 - 24.41    | 1.28         | 0.99 - 1.49             | 0.00                   | 0.00                            | 1.43                |
| Red    | 16.59      | 13.60 - 20.40    | N/A          | N/A                     | 29.40                  | 30.16                           | 1.19                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 10077

## Fluidics

FACSFlow Pressure: 3.90  
Spec.: 3.80 - 4.00  
Sample Pressure: 3.60

Comments